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AHAM Comments to the GridWise Architecture Council/NIST Home-to Grid Domain Expert Working Group Requirements Document

The Association of Home Appliance Manufacturers (AHAM) Smart Grid Task Force is pleased to have the opportunity to provide the Home-to-Grid Domain Expert Working Group with comments to the Requirements document. The AHAM Smart Grid Task Force was created to allow AHAM members to work collaboratively to ensure that the voice of home appliance manufacturers and their suppliers is heard in regards to the development process of a Smart Grid.

Outlined below is a basic framework of our industry's needs. The Task Force believes that the Requirements document did not adequately address these key points and would like to work with the Requirements Subcommittee to revise the tone and structure of the document to ensure that this is rectified. More details regarding these comments will be provided in the near future.

1) All message protocol definitions from the Smart Gird should exist in an open standards format to ensure inclusive manufacturer participation and to allow manufacturers to achieve maximum interoperability.

→ **Resolution by subcommittee: Accepted. Text inserted.**

2) Smart Appliances initially might support one-way communication only. Since the utility can determine responses to commands by monitoring the Smart Meter measurements, this requirement seems reasonable. A limited number of messages will be used for this communication. AHAM will be working on these details in the following weeks.

→ **Resolution by subcommittee: Accepted. Text inserted to require packet receipt acknowledgement, but not message confirmation or execution acknowledgement.**

3) Next generations of Smart Appliances may at some point be capable of supporting two- way communications. However, this communication most likely would be through an in-home managerial control system. As stated above, a limited number of standardized messages will be used to support this communication and details will be forthcoming in the following weeks. Of course, this does not preclude additional protocols and messages from being used for communication with the Smart Appliances from the in-home managerial control system.

→ **Resolution by subcommittee: Accepted. Text inserted in Section 5 to distinguish utility protocol from home protocol if a gateway is interposed.**

4) In all cases, the Smart Appliance will retain control of the appliance. The Smart Appliance will always allow the consumer the option to override a power reduction command, if the consumer so desires.

→ **Resolution by subcommittee: Accepted. Text inserted in Section 5.**

5) The Smart Appliance might possibly respond to rate level instructions from the utility in one of the following ways: 1) shedding load in a limited number of levels (for example, four or five possible power consumption levels) all under direct control of the appliance, 2) responding to commands from the in-home managerial control system (which is interpreting or managing the information from the utility, or 3) presenting the consumer with information that would encourage the consumer to delay use at that time.

   Again, the customer will always have the option to override these actions and resort to full power usage or different energy modes.

→ **Resolution by subcommittee: Accepted. Text inserted at the end of Section 2.2.**